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have any numbers.
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numbering in the
order that Acrobat
assigns it.

OPERATORS MANUAL AND PARTS CATALOG

FOR



ELECTRIC GENERATING SETS

WE

SERIES

Begin Spec. B

NOTE!!

The ONAN Manual and/or Parts Catalog only has been supplied. This model series is no longer in production. Due to reasons beyond our control we no longer stock or supply the engine manufacturers Manual or Parts Catalog. However we believe they are available direct from the engine manufacturer providing you furnish the SERIAL NUMBER and SPEC from the engine manufacturers nameplate on the engine. Refer to Parts Catalog and order from manufacturer as indicated under "Instructions for Ordering Repair Parts".

ONAN

1400 73RD AVENUE N. E. • MINNEAPOLIS, MINNESOTA 55432

A DIVISION OF ONAN CORPORATION


N.Y. INTERNATIONAL OFFICE: Empire State Bldg.

PARTS CATALOG

INSTRUCTIONS FOR ORDERING REPAIR PARTS


ONAN PARTS

All parts in this list are Onan parts. For Onan parts or service, contact the dealer from whom you purchased this equipment or your nearest authorized service station. To avoid errors or delay in filling your order, please refer to the Onan nameplate and give the complete MODEL, SPECIFICATION and SERIAL NUMBER.

Onan																																					
ELECTRIC GEN SET																																					
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SERIAL NO.	<input type="text"/>																																				
IMPORTANT - ALWAYS GIVE ABOVE NOS. WHEN ORDERING PARTS																																					
<table border="1"> <tr> <td colspan="2">CONTINUOUS</td> <td colspan="2">RATING</td> </tr> <tr> <td colspan="4" style="text-align: center;">HERTZ 60 RPM 1800</td> </tr> <tr> <td colspan="2">3 PHASE</td> <td colspan="2">1 PHASE</td> </tr> <tr> <td>KW <input type="text"/></td> <td>KVA <input type="text"/></td> <td>KW <input type="text"/></td> <td>KVA <input type="text"/></td> </tr> <tr> <td colspan="4">VOLTS 120/208 127/220 139/240 120/240 240/416</td> </tr> <tr> <td colspan="4">AMPS <input type="text"/></td> </tr> <tr> <td colspan="4">VOLTS 254/440 277/480 347/600 120/240</td> </tr> <tr> <td colspan="4">AMPS <input type="text"/></td> </tr> <tr> <td colspan="4">BAT. <input type="text"/> VOLTS</td> </tr> </table>		CONTINUOUS		RATING		HERTZ 60 RPM 1800				3 PHASE		1 PHASE		KW <input type="text"/>	KVA <input type="text"/>	KW <input type="text"/>	KVA <input type="text"/>	VOLTS 120/208 127/220 139/240 120/240 240/416				AMPS <input type="text"/>				VOLTS 254/440 277/480 347/600 120/240				AMPS <input type="text"/>				BAT. <input type="text"/> VOLTS			
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MANUFACTURED BY ONAN DIV. OF ONAN CORPORATION MINNEAPOLIS, MINN. 55432, U.S.A. FOR ELECT. EQUIPMENT ONLY  99A1034																																					

WAUKESHA PARTS

All Waukesha parts must be ordered from the Waukesha Motor Company of Waukesha, Wisconsin, or their nearest authorized distributor. When ordering parts, refer to the Waukesha nameplate and give the complete MODEL, SIZE and SERIAL NUMBER.

ROI  LINE			
MODEL	<input type="text"/>	SIZE	<input type="text"/>
SERIAL	<input type="text"/>	DATE	<input type="text"/>
GOV. SPD.	<input type="text"/>	NET CONT. H.P.	<input type="text"/>
OIL WINTER <input type="checkbox"/>	OIL SUMMER <input type="checkbox"/>	SET VALVES COLD INT. <input type="checkbox"/>	EXH. <input type="checkbox"/>
WAUKESHA MOTOR COMPANY		WAUKESHA, WISCONSIN	

This catalog applies to the standard WE plants as listed below. Powered by a Waukesha engine (see Waukesha Manual). Engine parts modified or added by Onan will be in this list and have Onan part numbers. These supersede similar parts listed in the Waukesha manual. Onan parts are arranged in groups or related items and are identified by a reference. All parts illustrations are typical. Using the Model and Spec No. from the Onan plant nameplate, select parts from this catalog that apply to your plant. Unless otherwise mentioned, parts are interchangeable. Right and left plant sides are determined by facing the front end of the engine.

PLANT DATA TABLE

MODEL AND SPEC NO. £	ELECTRICAL DATA			
	WATTS *	HERTZ	PHASE	WIRE
115.0WE-515R/	115,000	50	3	12
150.0WE-9XR/	150,000	60	3	4
150.0WE-15R/	150,000	60	3	12

£ - The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.

* - Maximum rating is shown. Continuous rating also appears on nameplate.

NOTE: Hertz is a unit of frequency equal to one cycle per second.

REPLACEMENT ENGINE

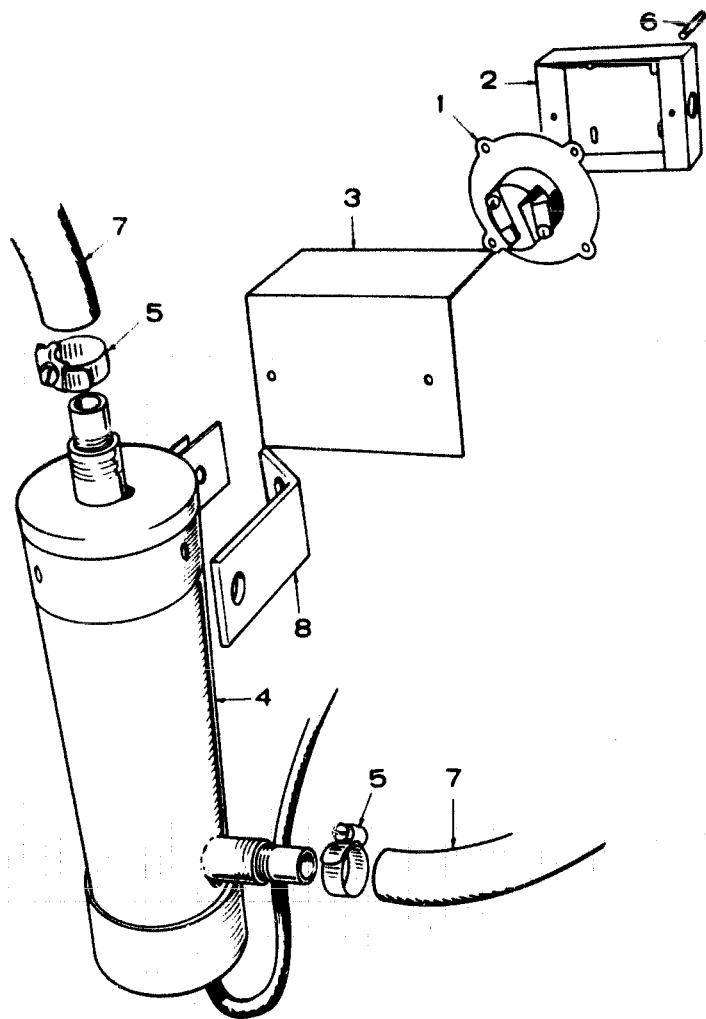
100PI007 I Engine, Replacement (Waukesha - Gasoline Carburetor, Model H-884)

General Description:

Includes - Complete Cylinder Block, Carburetor, Fuel Pump, Oil Filter, Oil Cooler, Distributor, High Tension Leads, Coil, Spark Plugs, Governor, Fan Blades and Belt, Flywheel and Flywheel Housing, Water Pump, Oil Pan, Exhaust Manifold and Intake Manifold.

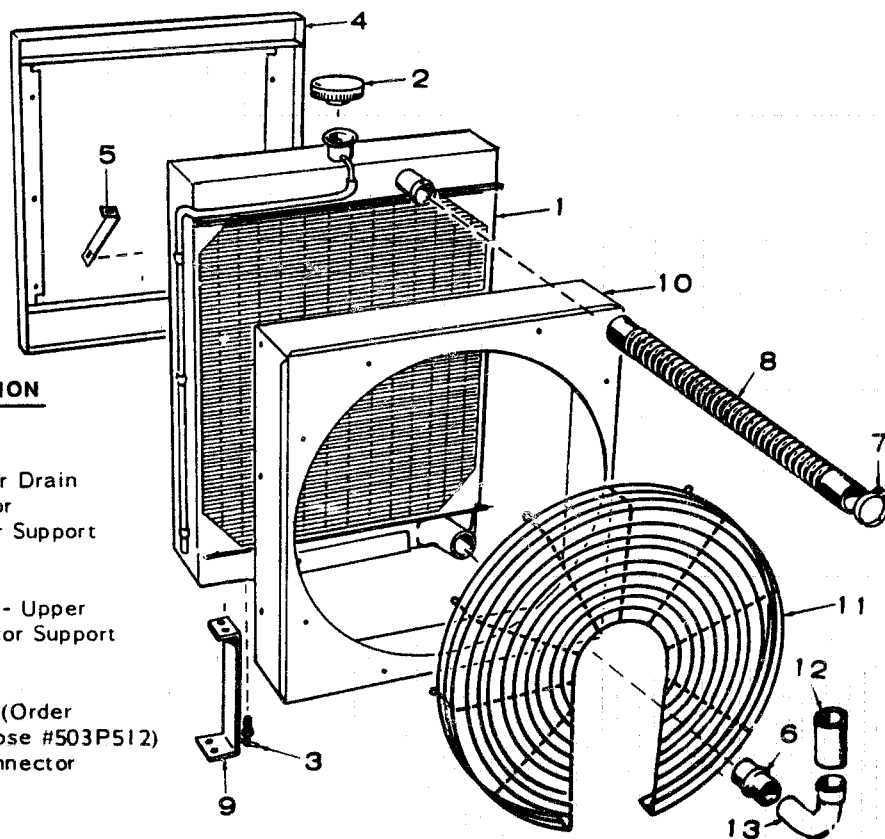
Excludes - Alternator, Voltage Regulator, Oil Pressure and Water Temperature Gauges, Ammeter, Air Cleaner, Radiator, Alternator Belt, Alternator Mounting Bracket and Alternator Adjusting Bracket.

WATER JACKET HEATER GROUP- OPTIONAL



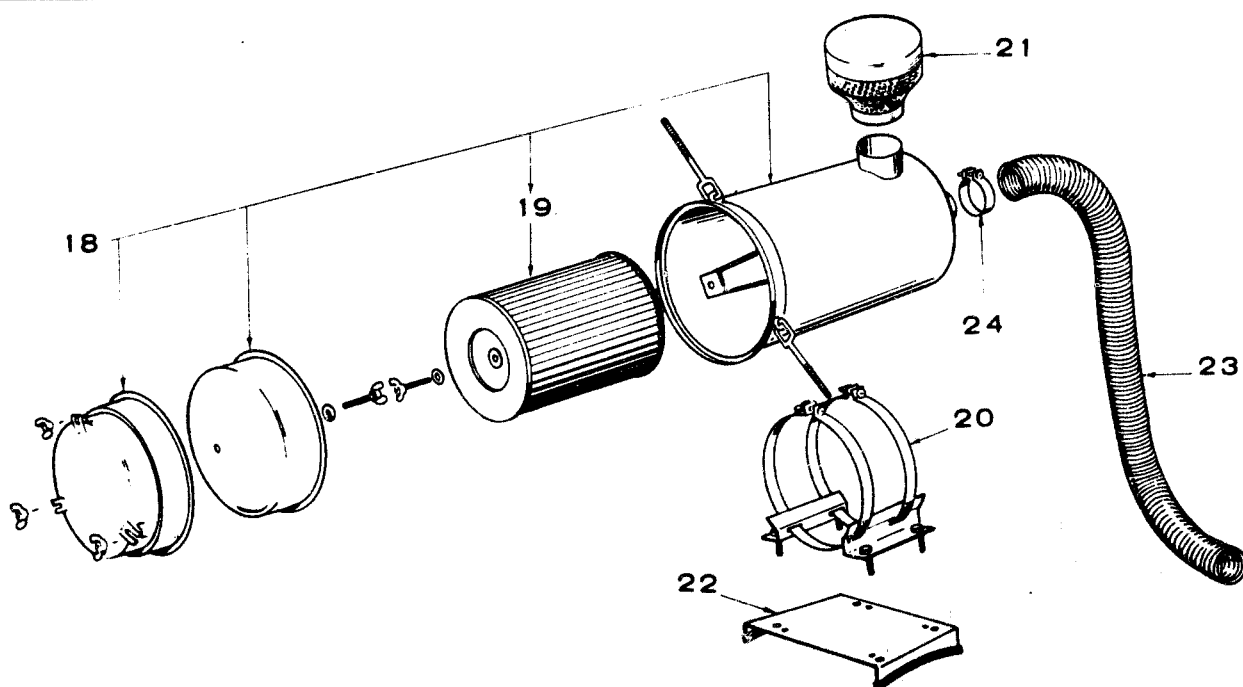
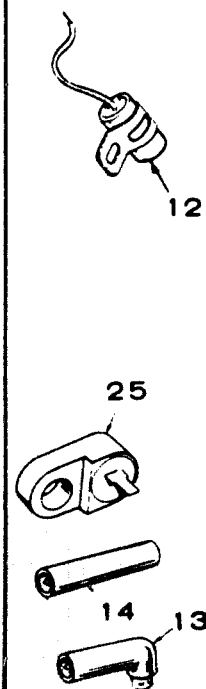
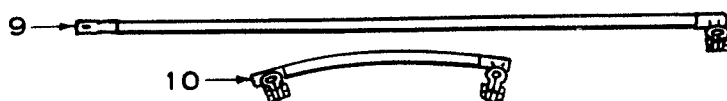
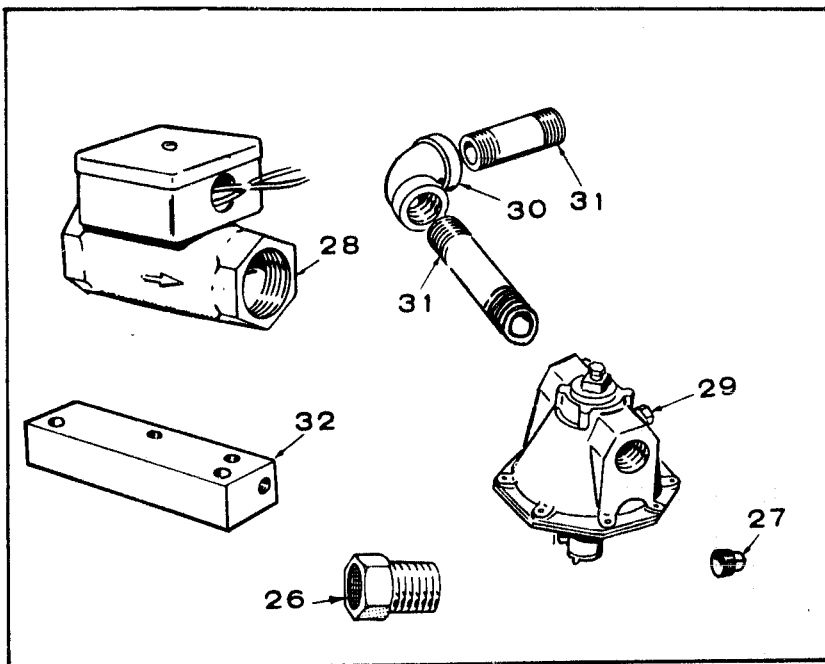
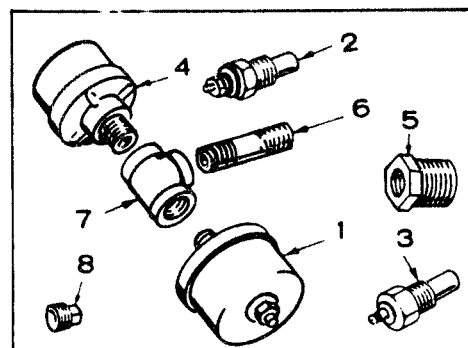
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	309P106	1	Thermostat
2	333A12	1	Box, Thermostat
3	333A13	1	Cover, Thermostat Box
4	333P53	1	Heater, Tank Type - 110 Volt
5	503-183	4	Clamp, Hose
6	332A672	2	Stud, Thermostat Box Mtg.
7		1	Hose (Order 6 feet of Bulk Hose #503P386)
8	130A755	1	Bracket, Heater Support

COOLING SYSTEM GROUP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130C836	1	Radiator
2	130B449	1	Cap, Radiator
3	504-28	1	Valve, Radiator Drain
4	130C842	1	Shroud, Radiator
5	130A848	2	Bracket, Radiator Support
6	503P625	1	Hose, Radiator
7	503P354	6	Clamp, Hose
8	503P616	1	Hose, Radiator - Upper
9	130B843	2	Bracket, Radiator Support
10	130D846	1	Shroud, Fan
11	130D840	1	Guard, Fan
12		1	Hose, Radiator (Order 3' of Bulk Hose #503P512)
13	503B626	1	Tube, Hose Connector

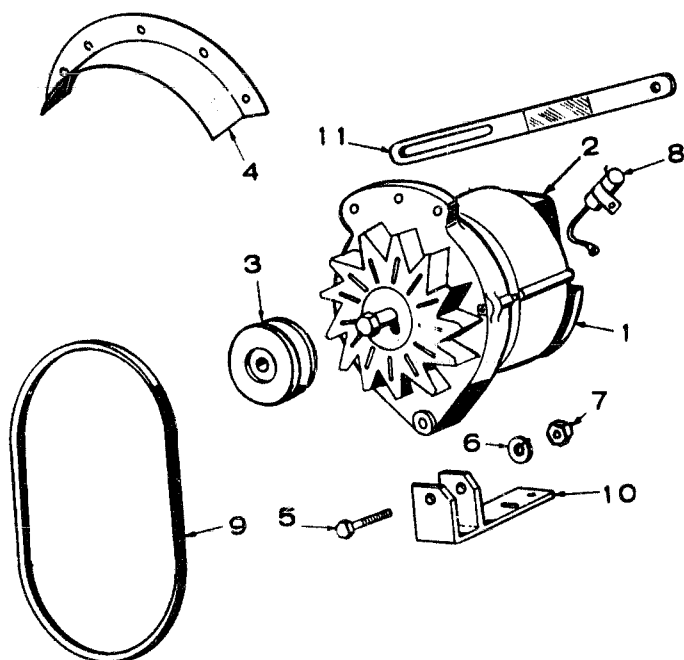
This diagram shows an exploded view of two components. On the left is a flange (11) with a central threaded bore and six bolt holes around its outer rim. On the right is a circular gasket (15) with a raised outer rim and a central hole. Arrows point from the labels 11 and 15 to their respective parts.



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	193A108	1	Sender, Oil Pressure Gauge
2	193A109	1	Sender, Water Temperature Gauge
3	309A178	1	Switch, High Water Temp.
4	309A169	1	Switch, Low Oil Pressure
5	505-117	1	Bushing, Reducer (1 1/2 x 3/8")
6	NIPPLE, OIL SENDER & SWITCH		
	505-98	1	1/8 x 3/4"
	505-104	1	1/8 x 1-1/2"
7	505-59	2	Tee, Oil Sender & Switch (1/8")
8	505-57	1	Plug, Pipe (1/8) - Oil Sender & Switch
9	CABLE, BATTERY		
	416A444	1	Positive
	416A445	1	Negative
10	416A446	1	Cable, Battery Jumper
11	155P658	1	Flange, Muffler Mounting
12	312A58	1	Condenser, Ignition Coil
13	314-156	8	Suppressor, Spark Plug
14	314P6	1	Suppressor, Coil
15	155P675	1	Gasket, Muffler Mounting
16	800-160	8	Screw (3/4-10 x 3-1/4") - Muffler Flange Mounting

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
17	862-8	8	Nut, Hex (3/4) - Muffler Flange Mounting
18	140B1131	1	Cleaner, Air (Includes Element)
19	140P1156	1	Element, Air Cleaner
20	140A1130	1	Clamp, Air Cleaner Mounting
21	140A1132	1	Cap, Air Cleaner
22	140A1125	1	Bracket, Air Cleaner Mounting
23		1	Hose, Air Cleaner (Order 43" of bulk hose #503P620)
24	503P622	2	Clamp, Air Cleaner Hose
25	309P269	1	Switch, Low Engine Temperature - Optional
26	148-107	1	Vent, Gas Regulator
27	505-57	1	Plug, Pipe (1/8) - Carburetor - Gas-Gasoline Sets
28	307P1041	1	Valve, Solenoid - LPG Sets
29	148-596	1	Regulator, Gas- Natural Gas Sets
30	505-42	1	Elbow (1-1/4) - Natural Gas Sets
31	505-258	2	Nipple (1-1/4 x 3/4) - Natural Gas Sets
32	193B209	1	Manifold, Oil Sender

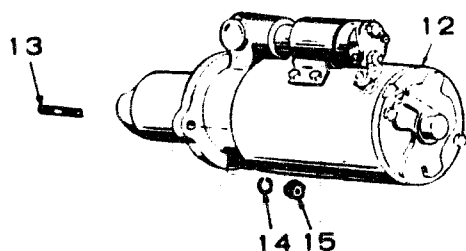
ALTERNATOR AND STARTER MOTOR GROUP



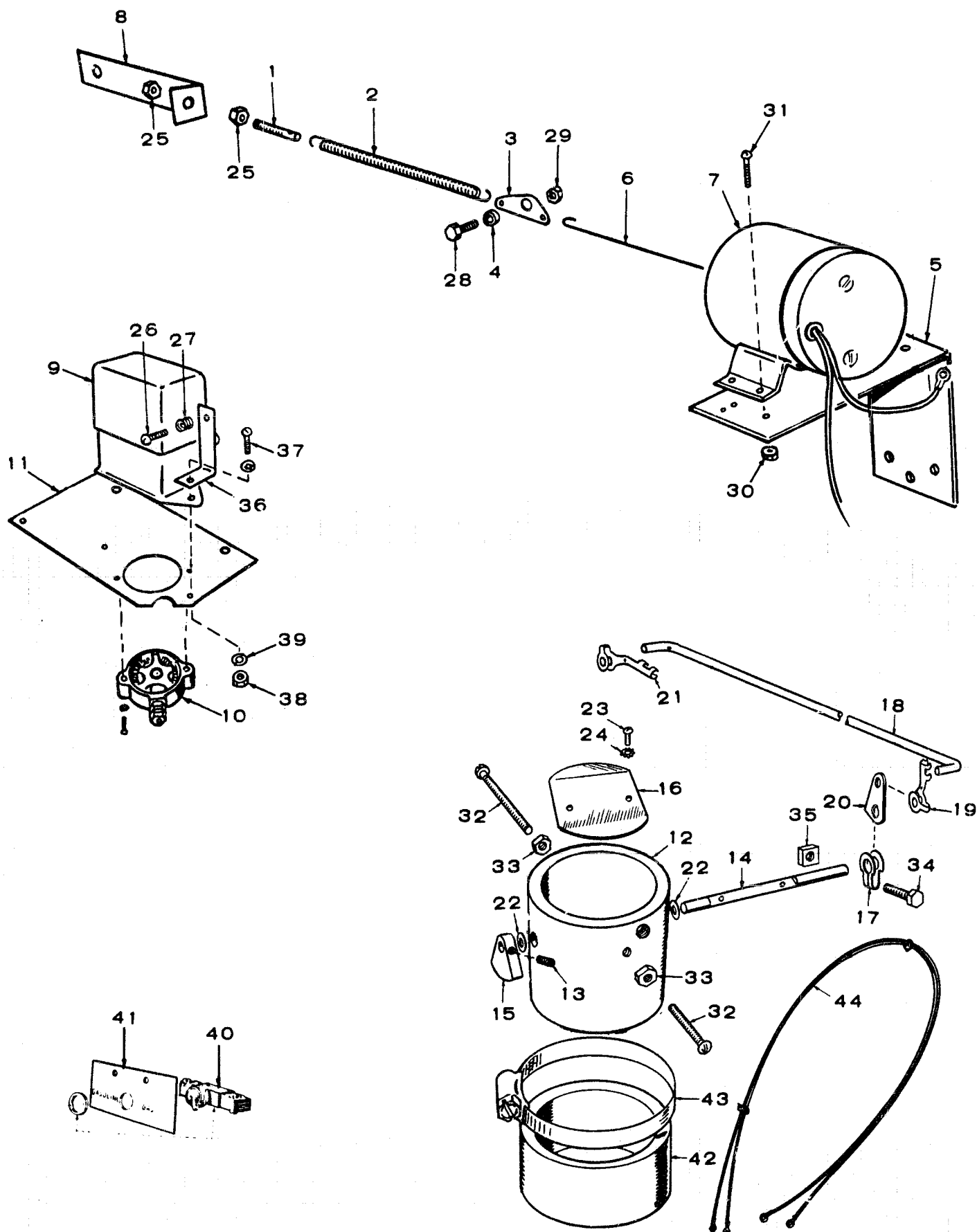
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	191B665	1	★Alternator, Charge - Includes Regulator & Fan (Motorola #70D44039B)
2	191P732	1	Regulator, Alternator
3	191B649	1	Pulley, Alternator
4	191B725	1	Guard, Alternator Belt
5	800-95	1	Screw (1/2-13 x 2-1/4) - Alternator Mounting
6	850-60	1	Washer, Lock (1/2) - Alternator Mounting
7	862-16	1	Nut, Hex (1/2) - Alternator Mounting
8	312A58	1	Condenser, Alternator - 0.1 Mfd.
9	511P58	1	Belt, Alternator Drive
10	191B690	1	Bracket, Alternator Mtg.
11	191B868	1	Bracket, Alternator Adj.
12	191P568	1	*Motor, Starting (Delco Remy #1113376)
13	520A691	3	Stud (1/2 x 3/8) - Starter Mounting
14	850-50	3	Washer, Lock - Starter Mtg.
15	862-3	3	Nut, Hex (3/8) - Starter Mtg.

* - For components, contact your nearest Delco Remy Dealer or Delco Remy Division of General Motors Corporation, Anderson, Indiana 46011.

★ - For components, contact your nearest Motorola Dealer or Motorola Automotive Products, Inc., 9401 W. Grand Ave., Franklin Park, Illinois 60131.

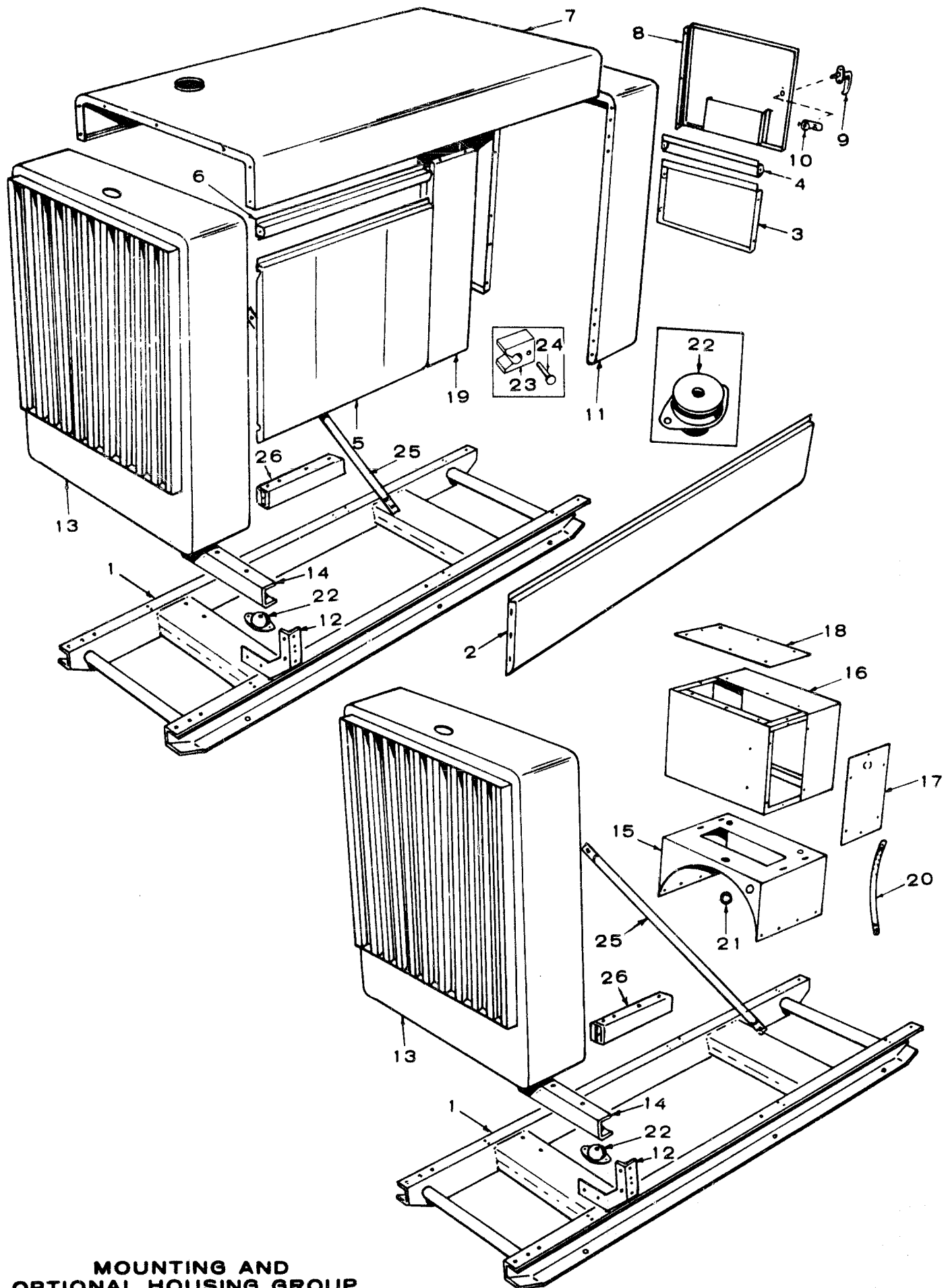


ANTI DIESELING CONTROL AND CHOKE GROUP



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	STUD, ADJUSTING 150A96 150A213	1 1	Gasoline Sets Gas-Gasoline & LPG-Gasoline Sets
2	SPRING, THROTTLE 145A158 145A119	1 1	Gasoline Sets Gas-Gasoline & LPG-Gasoline Sets
3	145A414	1	Link, Throttle Spring
4	150A302	1	Spacer, Linkage
5	BRACKET, SOLENOID MOUNTING 145A369 145A383	1 1	Gasoline Sets Gas-Gasoline & LPG-Gasoline Sets
6	LINK, SOLENOID 145A437 145A423	1 1	Gasoline Sets Gas-Gasoline & LPG-Gasoline Sets
7	307B1093	1	Solenoid & Lead Assembly
8	BRACKET, THROTTLE 145A370 145A382	1 1	Gasoline Sets Gas-Gasoline & LPG-Gasoline Sets
9	153P213	1	Choke, Auto. (Sisson) - Gas-Gasoline & LPG-Gasoline Sets
10	153A49	1	Cover Assembly, Choke - Gas-Gasoline & LPG-Gasoline Sets
11	153B413	1	Bracket, Choke Mounting - Gas-Gasoline & LPG-Gasoline Sets
12	153B412	1	Adapter, Choke - Gas-Gasoline & LPG-Gasoline Sets
13	803-2	1	Screw, Set (8-32 x 3/16") - Counter-Weight - Gas-Gasoline & LPG-Gasoline Sets
14	153A287	1	Shaft, Choke - Gas-Gasoline & LPG-Gasoline Sets
15	148A317	1	Counterweight, Choke Shaft - Gas-Gasoline & LPG-Gasoline Sets
16	153A288	1	Plate, Choke - Gas-Gasoline & LPG-Gasoline Sets
17	153A282	1	Arm, Choke - Gas-Gasoline & LPG-Gasoline Sets
18	153A411	1	Rod, Choke - Gas-Gasoline & LPG-Gasoline Sets
19	518-47	1	Clip, Rod End (Adapter End) - Gas-Gasoline & LPG-Gasoline Sets
20	153A283	1	Arm, Choke Over-Ride - Gas-Gasoline & LPG-Gasoline Sets

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
21	518-5	1	Clip, Rod End (Choke End) - Gas-Gasoline & LPG-Gasoline Sets
22	508-7	2	Washer, Choke Shaft Seal - Gas-Gasoline & LPG-Gasoline Sets
23	812-59	2	Screw, Choke Plate Mounting - Gas-Gasoline & LPG-Gasoline Sets
24	853-3	2	Washer, Choke Plate Mounting - Gas-Gasoline & LPG-Gasoline Sets
25	870-53	2	Nut, Hex (10-32) - Adjusting Stud
26	813-100	1	Screw (10-32 x 1/2) - Choke Lock - Gas-Gasoline & LPG-Gasoline Sets
27	232A979	1	Spring, Choke Lock - Gas-Gasoline & LPG-Gasoline Sets
28	800-6	1	Screw (1/4-20 x 7/8"), Throttle Spring Link
29	862-1	1	Nut, Hex (1/4-20) - Throttle Spring Link
30	860-8	4	Nut, Hex - Solenoid Mounting
31	812-79	4	Screw, Solenoid Mounting - (8-32 x 1/2")
32	813-111	1	Screw, Choke Plate Stop - (10-32 x 2-1/4")
33	870-53	2	Nut, Hex (10-32)
34	815-178	1	Screw (10-32 x 5/8) - Choke Arm Mounting
35	861-8	1	Nut, Hex (10-32) - Choke Arm Mounting
36	153A304	1	Bracket, Choke Lock - Gas-Gasoline & LPG-Gasoline Sets
37	800-3	2	Screw (1/4-20 x 1/2") - Bracket Mounting
38	860-13	2	Nut, Hex (1/4-20)
39	850-40	2	Washer, Lock (1/4)
40	308-68	1	Switch, Toggle - Gas-Gasoline & LPG-Gasoline Sets
41	308A150	1	Plate, Switch Mounting - Gas-Gasoline & LPG-Gasoline Sets
42	503-520	1	Hose, Adapter - Gas-Gasoline & LPG-Gasoline Sets
43	503P518	2	Clamp, Hose - Gas-Gasoline & LPG-Gasoline Sets
44	338A612	1	Harness, Wiring - Choke - Gas-Gasoline & LPG-Gasoline Sets

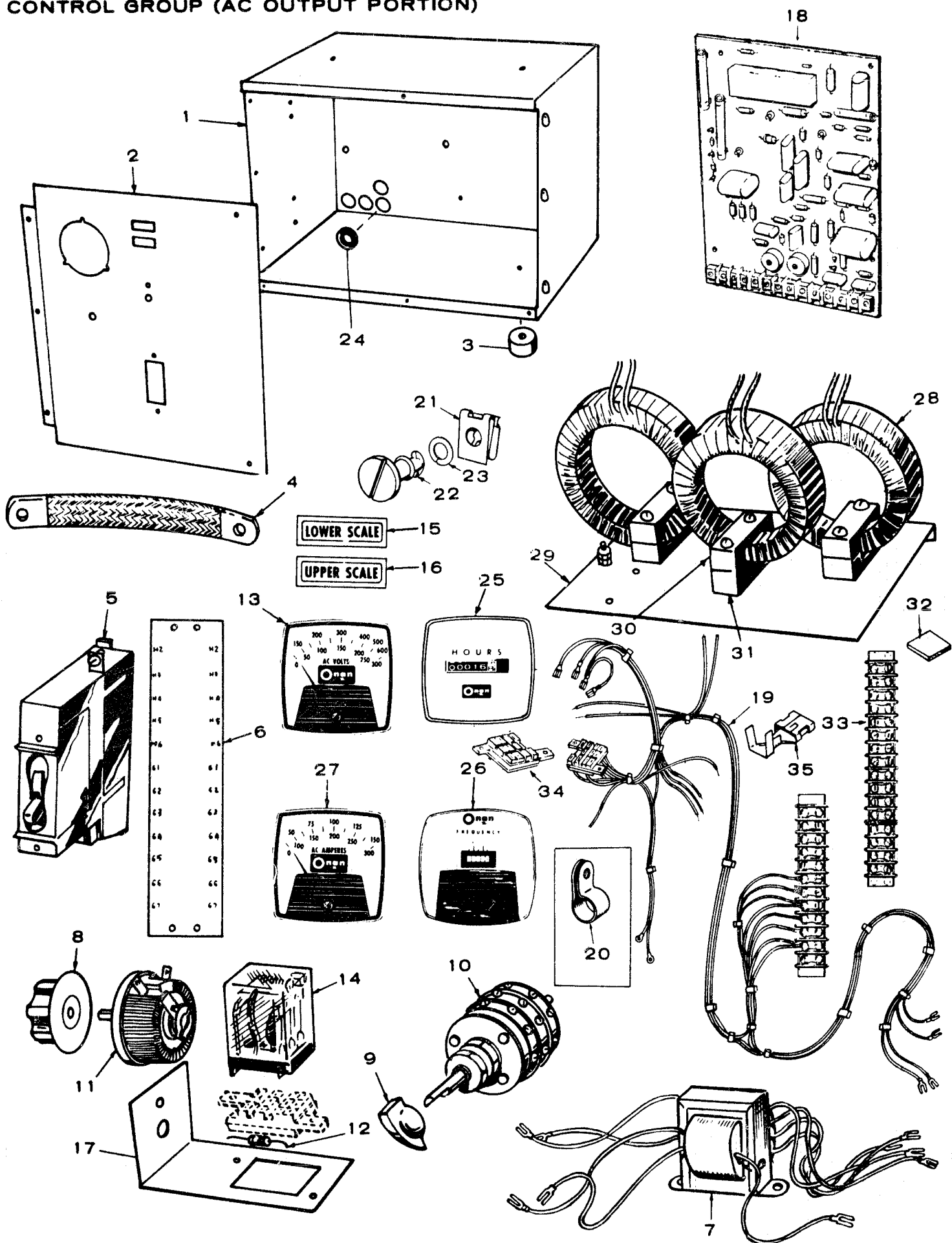


**MOUNTING AND
OPTIONAL HOUSING GROUP**

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	403D970	1	Base, Skid
2	405C1879	2	Panel, Base (Housed Sets)
3	405B1856	1	Panel, Lower Rear Housing (Housed Sets)
4	405D1858	2	Panel, Rear Lower (Housed Sets)
5	405C1876	4	Panel, Door - Side (Housed Sets)
6	405B1874	8	Panel, Louver (Housed Sets)
7	405D1890	1	Panel, Top (Housed Sets)
8	405C1880	1	Panel, Rear Door (Housed Sets)
9	406A157	1	Handle, Door (Housed Sets)
10	406P89	1	Catch, Door (Housed Sets)
11	405D1883	1	Panel, Rear (Housed Sets)
12	BRACKET, PANEL MOUNTING		
	405B1854	2	Unhoused Sets
	405B1854	8	Housed Sets
13	405D1884	1	Panel, Front
14	403C969	1	Support, Engine Mount
15	301C3154	1	Saddle, Control Box Housing

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
16	301B3155	1	Housing, Control Box
17	301B3156	2	Panel, Control Box Housing (Side)
18	301B3157	1	Panel, Control Box Housing (Top)
19	405C1873	2	Support, Center Housing (Housed Sets)
20	337P90	1	Strap, Ground
21	508PI	1	Grommet, Rubber - Control Box Housing
22	MOUNT, VIBRATION		
	402A371	2	Engine End
	402A384	2	Generator End
23	405A1872	16	Clip, Door (Housed Sets)
24	818-150	16	Rivet, Door Clip Mounting (Housed Sets)
25	405B1888	2	Bracket, Radiator and Shroud Support (Upper)
26	405B1887	2	Bracket, Radiator and Shroud Support (Lower)

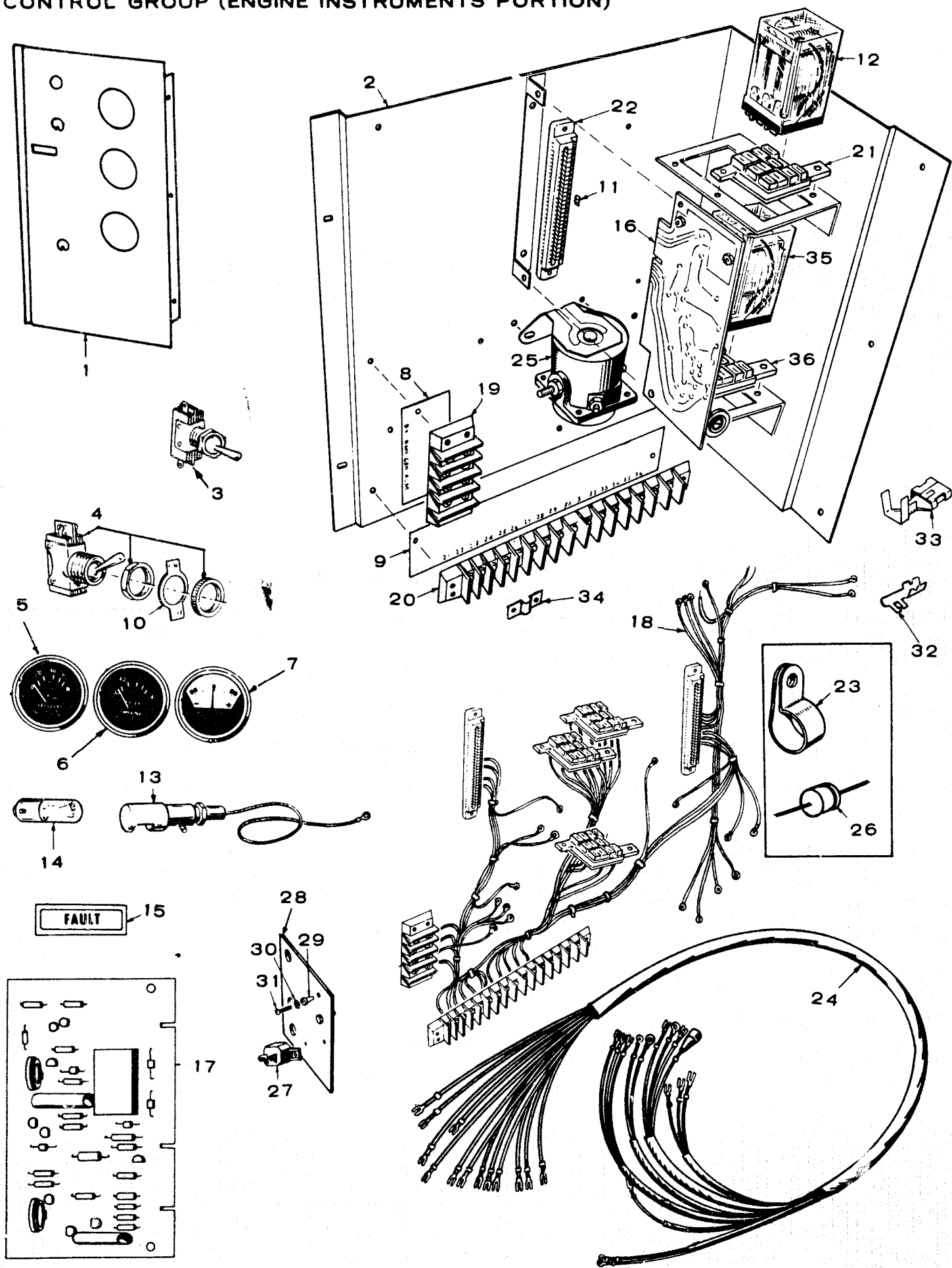
CONTROL GROUP (AC OUTPUT PORTION)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301D3158	1	Box Only, Control
2	PANEL ONLY, CONTROL		
	301C3342	1	150.0WE-9XR Sets
	301C3170	1	115.0WE-515R and 150.0WE-15R Sets
3	402A78	4	Rubber, Mounting - Control Box
4	337A49	1	Strap, Ground
5	320B431	1	Breaker, Circuit
6	332A1242	1	Strip, Marker
7	315D342	1	Transformer, Voltage
8	303P32	1	Knob, Rheostat
9	303-76	1	Knob, Selector Switch
10	308B284	1	Switch, Selector
11	303P170	1	Rheostat
12	350-556	1	Resistor, 47,000-Ohm, 1/2 Watt (115.0WE-515R and 150.0WE-15R Sets) - Part of Wiring Harness
13	VOLTMETER		
	302B779	1	150.0WE-9XR Sets
	302B718	1	115.0WE-515R and 150.0WE-15R Sets
14	307B1061	1	Relay, Voltage Selector - 115.0WE-515R and 150.0WE-15R Sets
15	322A130	1	Light, Lower Scale - 115.0WE-515R and 150.0WE-15R Sets
16	322A131	1	Light, Upper Scale - 115.0WE-515R and 150.0WE-15R Sets
17	301B3244	1	Bracket, Relay Mounting
18	332D1268	1	Board Assy., Printed Circuit (See Separate Group for Components)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
19	HARNESS, WIRING - AC CONTROL		
	338D571	1	150.0WE-9XR Sets
	338D525	1	115.0WE-515R and 150.0WE-15R Sets
20	332-50	2	Clip, Tinnerman
21	406-332	2	Fastener
22	406-333	2	Stud, Fastener
23	406-334	2	Washer, Stud Fastener
24	508P1	4	Grommet
25	METER, RUNNING TIME		
	302P469	1	50 Hertz Sets
	302P466	1	60 Hertz Sets
26	METER, FREQUENCY		
	302B256	1	50 Hertz Sets
	302B221	1	60 Hertz Sets
27	AMMETER, AC		
	302B411	1	150.0WE-9XR Sets
	302B723	1	115.0WE-515R Sets
	302B724	1	150.0WE-15R Sets
28	TRANSFORMER, CURRENT		
	302B106	3	150.0WE-9XR Sets
	302B547	3	115.0WE-515R Sets
	302B471	3	150.0WE-15R Sets
29	BRACKET, TRANSFORMER MOUNTING		
	302B729	1	150.0WE-9XR Sets
	302B764	1	115.0WE-515R and 150.0WE-15R Sets
30	302A235	3	Clamp, Transformer Mtg. - Upper - 150.0WE-9XR Sets
31	302A236	3	Clamp, Transformer Mtg. - Lower - 150.0WE-9XR Sets
32	302-253	3	Shim, Transformer Mounting - 150.0WE-9XR Sets
33	332A795	1	Block, Terminal (Part of Wiring Harness)
34	323A764	1	Socket, Relay (Part of Wiring Harness) - 115.0WE-515R and 150.0WE-15R Sets
35	332A1280	As Req.	Terminal, Crimp

CONTROL GROUP (ENGINE INSTRUMENTS PORTION)

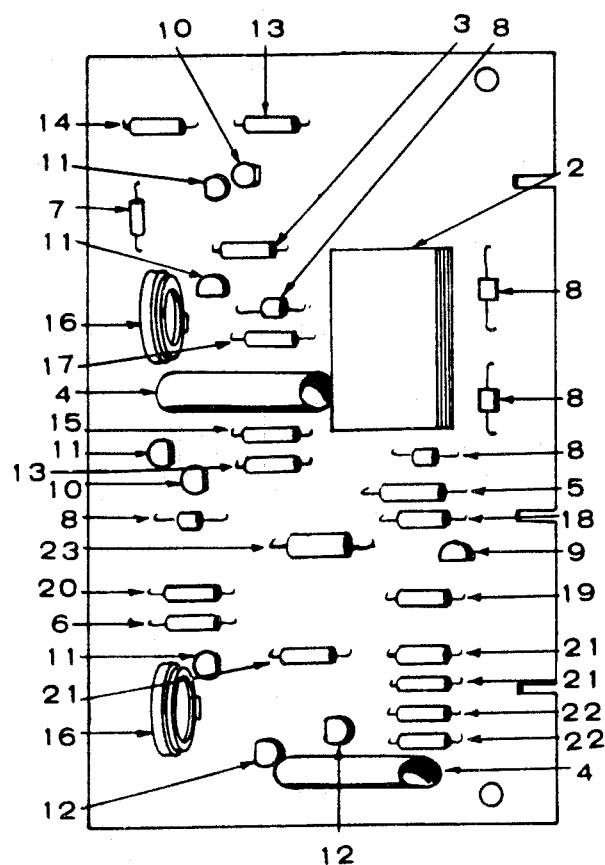


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301D3165	1	Panel Only, Engine Control
2	301D3253	1	Bracket, Engine Control
3	308P138	1	Switch, Selector
4	308-2	1	Switch, Panel Light
5	193B107	1	Gauge, Oil Pressure
6	193B106	1	Gauge, Water Temperature
7	302A61	1	Ammeter, Charge (30-0-30)
8	332A1239	1	Strip, Marker (B+, Remote, Gnd. Alm)
9	332A1241	1	Strip, Marker (21 through 36)
10	308A3	1	Plate, Switch (On-Off)
11	332-1276	2	Plug, Keying
12	307B1058	2	Relay (1) Start Disconnect (1) Ignition
13	322P73	1	Holder, Lamp
14	322P74	1	Lamp, Panel
15	322A128	1	Lamp, Fault
16	CONTROL, CRANKER		
	300A733	1	Standard Cranker
	300C714	1	Cycle Cranker (Optional) See Separate Group for Components.
17	300C6	1	Monitor, Engine Control - See Separate Group for Components.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
18	338D528	1	Harness Assembly, Wiring - Control (Includes Parts Marked *)
19	332A537	1	*Block, Terminal - 4 Place
20	332A795	1	*Block, Terminal - 16 Place
21	323A765	2	*Socket, Relay - 11 Place
22	332B1271	2	*Housing, Printed Circuit Board Terminal
23	332-51	1	Clip, Tinnerman
24	338C611	1	Harness Assembly, Wiring - Engine to Control
25	307B1031	1	Relay, Starter Pilot
26	357A4	1	Rectifier, Diode (Part of Standard Cranker Control)
27	320P165	1	Breaker, Circuit
28	332B1382	1	Bracket, Terminal Mounting
29	870P196	1	Nut, Insulator
30	508-15	1	Washer, Fiber
31	809-35	1	Screw, Metal (#8 x 3/4)
32	332A1269	As Req.	*Terminal, PC Board
33	332A1280	As Req.	*Terminal, Crimp
34	332C1043	1	*Jumper, Terminal
35	307B1061	1	Relay, Starter Protection
36	323A764	1	*Socket, Relay - 8 Place

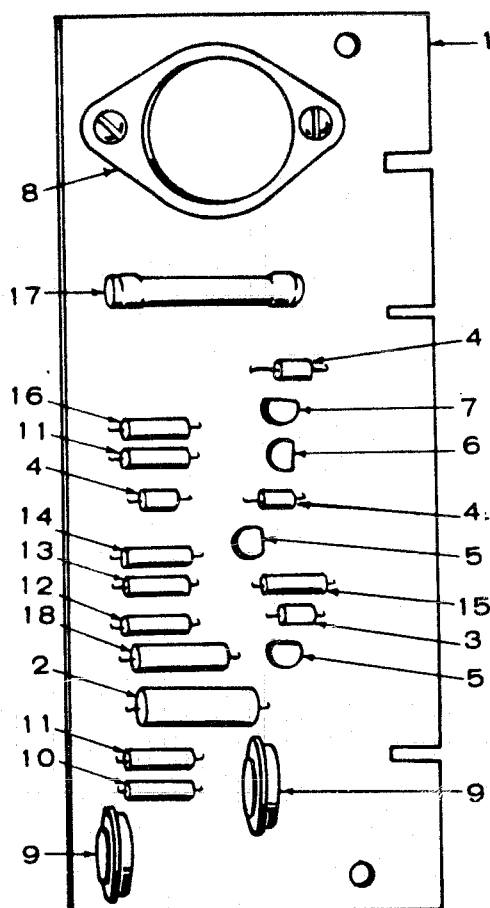
* - Included in #338D528 Wiring Harness Assembly.

ENGINE CONTROL MONITOR GROUP

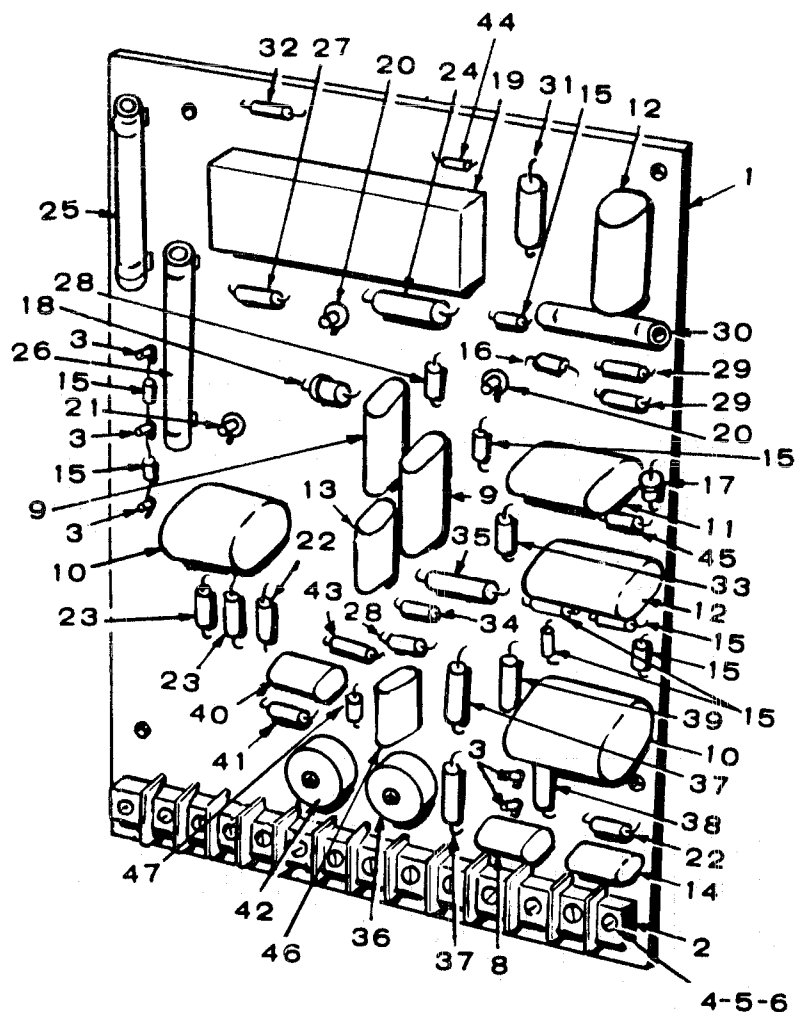


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	300C679	1	Monitor Assembly Complete - Engine Control
2	307A1039	1	Relay
3	350P548	1	Resistor (10,000-Ohm)
4	355P5	2	Capacitor (22 Mfd.)
5	356A40	1	Capacitor (10 Mfd.)
6	356A30	1	Capacitor (1 Mfd.)
7	359A27	1	Diode, Zener
8	357A4	5	Rectifier, Diode
9	364A11	1	Rectifier, Gate Control
10	361A3	2	Transistor
11	362A25	4	Transistor, Fld. Effect
12	362A8	2	Transistor, Silicon
13	350-536	2	Resistor (1,000-Ohm)
14	350-526	1	Resistor (150-Ohm)
15	350-552	1	Resistor (22,000-Ohm)
16	303A169	2	Potentiometer
17	350-576	1	Resistor (2.2 Megohm)
18	350-505	1	Resistor (2.7-Ohm)
19	350-517	1	Resistor (27-Ohm)
20	350-584	1	Resistor (10 Megohm)
21	350-529	3	Resistor (270-Ohm)
22	350-540	2	Resistor (2,200-Ohm)
23	350-1128	1	Resistor (220-Ohm)

CONTROL, CYCLE CRANKER GROUP - OPTIONAL

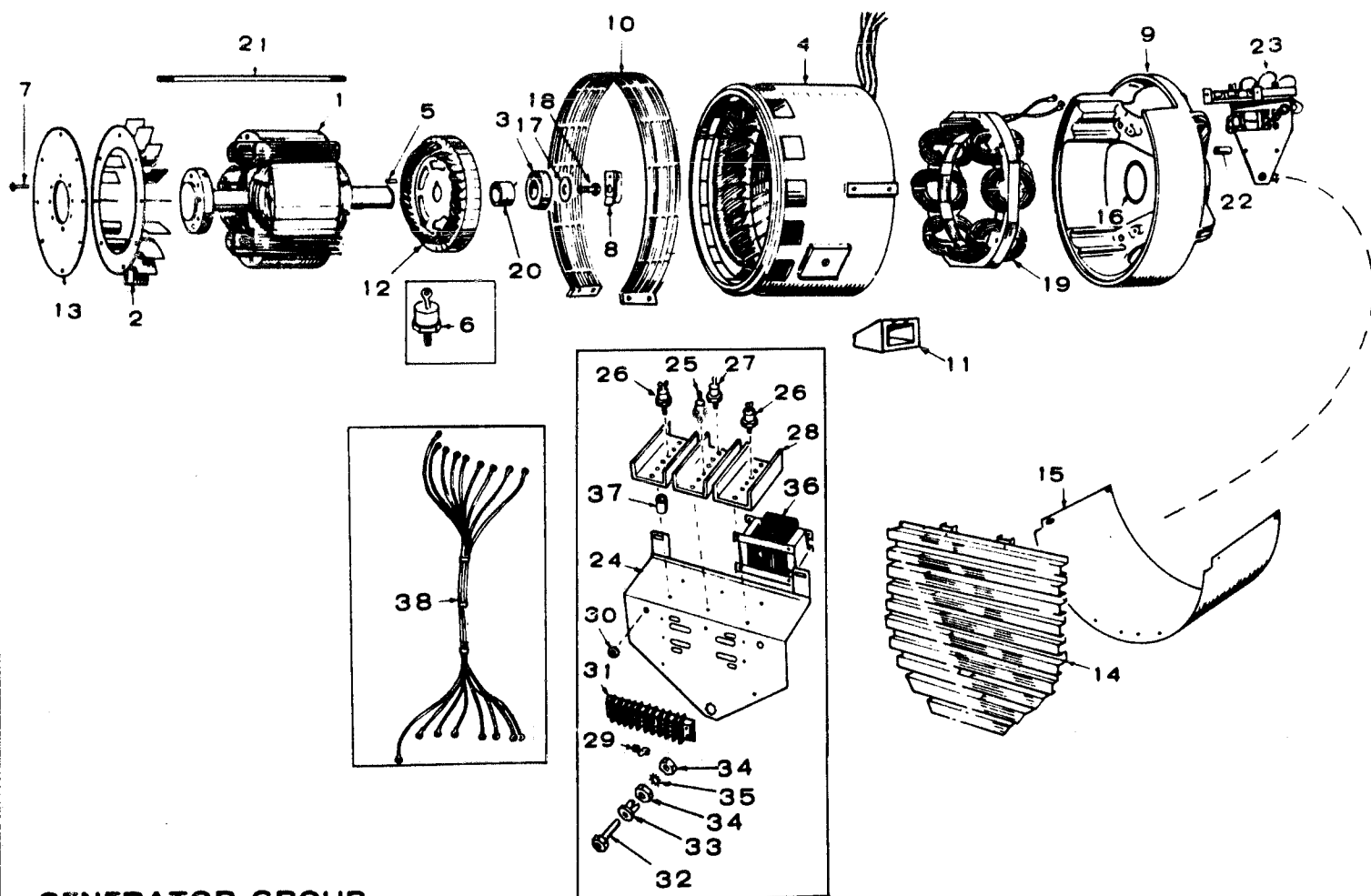


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	300C714	1	Control, Cycle Cranker - Complete
2	356A39	1	Capacitor, Electrolytic (100 Mfd.)
3	359A27	1	Diode, Zener (7.5 Volts)
4	357A4	3	Rectifier, Diode
5	362A8	2	Transistor, Signal
6	362-17	1	Transistor
7	362A26	1	Transistor, Signal
8	362A19	1	Transistor, Power
9	303A171	2	Potentiometer (100,000-Ohm)
10	350-560	1	Resistor, Fixed (0.1 Megohm)
11	350P548	2	Resistor, Fixed (10,000-Ohm)
12	350-558	1	Resistor, Fixed (68,000-Ohm)
13	350-420	1	Resistor, Fixed (24,000-Ohm)
14	350-546	1	Resistor, Fixed (6,800-Ohm)
15	350-526	1	Resistor, Fixed (150-Ohm)
16	350-500	1	Resistor, Fixed (1.0-Ohm)
17	352A152	1	Resistor, Fixed (5 Watt, 25-Ohm)
18	355P10	1	Capacitor, Dielectric (.0022 Mfd., 100 Volt)



PRINTED CIRCUIT BOARD ASSEMBLY GROUP (AC)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	332DI268	1	Board Assembly, Printed Circuit - Complete	27	350-398	1	Resistor (1/2 Watt, 3,000-Ohm)
2	332B1252	1	Block, Terminal (12 Place)	28	350-447	2	Resistor (1/2 Watt, 330,000-Ohm)
3	332B833	5	Terminal, Standoff	29	350-423	2	Resistor (1/2 Watt, 33,000-Ohm)
4	812-81	2	Screw, Round Head Machine (#8-32 x 5/8)	30	352P151	1	Resistor, Fixed (5 Watt, 15,000-Ohm)
5	853-5	2	Washer, External Lock (#8)	31	350-1014	1	Resistor (2 Watt, 13,000-Ohm)
6	860-8	2	Nut, Hex (#8-32)	32	350-1007	1	Resistor (2 Watt, 6,800-Ohm)
8	355P18	1	Capacitor (.47 Mfd., 100 Volt)	33	350-443	1	Resistor (1/2 Watt, 220,000-Ohm)
9	355P5	2	Capacitor (.22 Mfd., 200 Volt)	34	350-435	1	Resistor (1/2 Watt, 100,000-Ohm)
10	355P17	2	Capacitor (.47 Mfd., 400 Volt)	35	351P521	1	Resistor, Metal Film (1/4 Watt, 12,100-Ohm)
11	355P6	1	Capacitor (.47 Mfd., 200 Volt)	36	303A168	1	Potentiometer
12	355P16	2	Capacitor (1 Mfd., 100 Volt)	37	351P520	2	Resistor, Metal Film (1/4 Watt, 28,000-Ohm)
13	355P15	1	Capacitor (1 Mfd., 200 Volt)	38	351P522	1	Resistor, Metal Film (1/4 Watt, 5,110-Ohm)
14	355P14	1	Capacitor (.047 Mfd., 200 Volt)	39	351P523	1	Resistor, Metal Film (1/4 Watt, 8,870-Ohm)
15	357B14	8	Rectifier, Silicon	40	355P20	1	Capacitor (.1 Mfd., 400 Volt)
16	359A16	1	Diode, Zener	41	350-1011	1	Resistor (2 Watt, 10,000-Ohm)
17	359A25	1	Diode, Zener	42	303A164	1	Potentiometer
18	359A26	1	Diode, Zener	43	350-167	1	Resistor (1/2 Watt, 2.2 Megohm)
19	307C1063	1	Relay, Magnetic Reed	44	359A15	1	Diode, Zener
20	362-17	2	Transistor, Silicon NPN	45	356A39	1	Capacitor (100 Mfd., 10 Volt)
21	361B4	1	Transistor, Unijunction	46	355P6	1	Capacitor (.47 Mfd., 200 Volt)
22	350-355	2	Resistor (1/2 Watt, 47-Ohm)	47	350-435	1	Resistor (1/2 Watt, 100,000-Ohm)
23	350-351	2	Resistor (1/2 Watt, 33-Ohm)				
24	350-1075	1	Resistor (2 Watt, 4.7 Megohm)				
25	353P40	1	Resistor, Fixed (10 Watt, 270-Ohm)				
26	353P39	1	Resistor, Fixed (15 Watt, 5,000-Ohm)				



GENERATOR GROUP

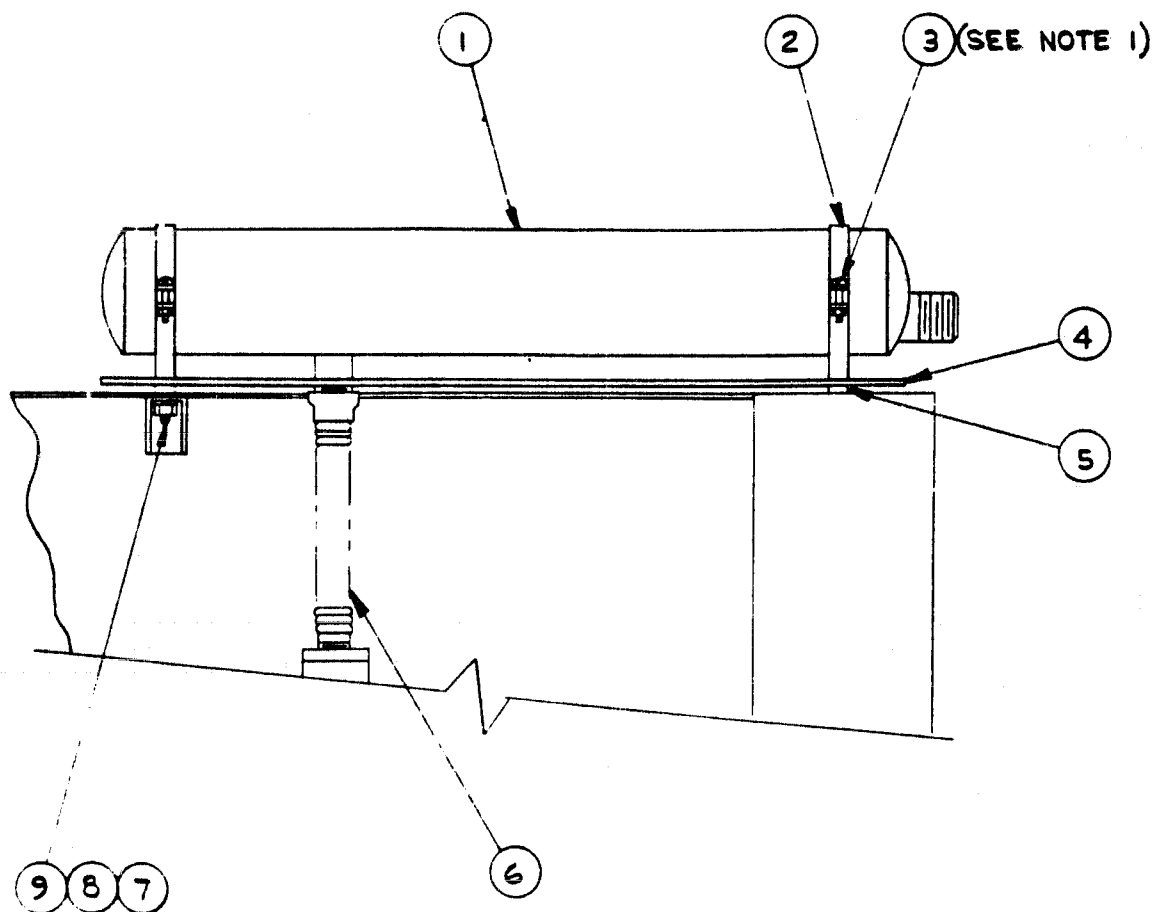
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	*	1	Rotor Assembly, Wound - Includes Collector Ring
2	205C95	1	Blower
3	510B101	1	Bearing
4	*	1	Stator Assembly, Wound
5	515A145	1	Key, Exciter Rotor
6	RECTIFIER, DIODE (PART OF EXCITER ROTOR)		
	358C15	3	Negative
	358C16	3	Positive
7	BOLT, PLACE		
	805-33	8	Drive Disc to Hub
	805-32	8	Drive Disc to Engine
8	150A717	1	Switch Assembly, Overspeed
9	211E185	1	Bell, End
10	234B368	1	Screen, Generator
11	232C2208	2	Bracket, Generator Mounting
12	201D1739	1	Rotor Assembly, Wound - Exciter
13	232C2037	1	Disc, Generator Drive
14	234B370	1	Grille, Generator Air Inlet
15	234B361	1	Wrapper, Generator End Bell
16	509P125	1	Seal, "O" Ring - Bearing
17	526A238	1	Washer, Bearing Retainer
18	800A513	1	Screw, Bearing Retainer
19	220D1528	1	Stator Assembly, Wound - Exciter
20	232A2102	1	Spacer, Bearing
21	520A735	4	Stud, End Bell
22	305A481	2	Spacer, Voltage Regulator Chassis Mounting

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
23	305D491	1	Chassis Assembly, Voltage Regulator - Includes Parts Marked ★
24	305D482	1	★Chassis, Voltage Regulator
25	358B29	1	★Rectifier, Silicon (Avalanche) - Negative
26	364B14	2	★Rectifier, Gate Control - Neg.
27	359B35	2	★Rectifier, Silicon (Avalanche) - Negative
28	363B53	3	★Heat Sink, Rectifier
29	332C1043	2	★Jumper, Terminal Board
30	508A2	2	★Grommet, Reactor Leads
31	332A1266	1	★Block, Terminal
32	150A723	1	★Contact Assembly, Overspeed Switch
33	870A250	1	★Nut, Insulator - Overspeed Switch
34	862-1	2	★Nut, Hex (1/4-20) - Overspeed Switch
35	853-13	1	★Washer, Lock - Overspeed Switch
36	315D343	1	★Reactor Assembly
37	332P1265	6	★Insulator, Heat Sink Mounting
38	338B521	1	Harness Assembly, Voltage Regulator

* Refer to factory giving complete Model, Spec and Serial Number from the Onan nameplate.

★ Included in the Chassis Assembly.

179B401



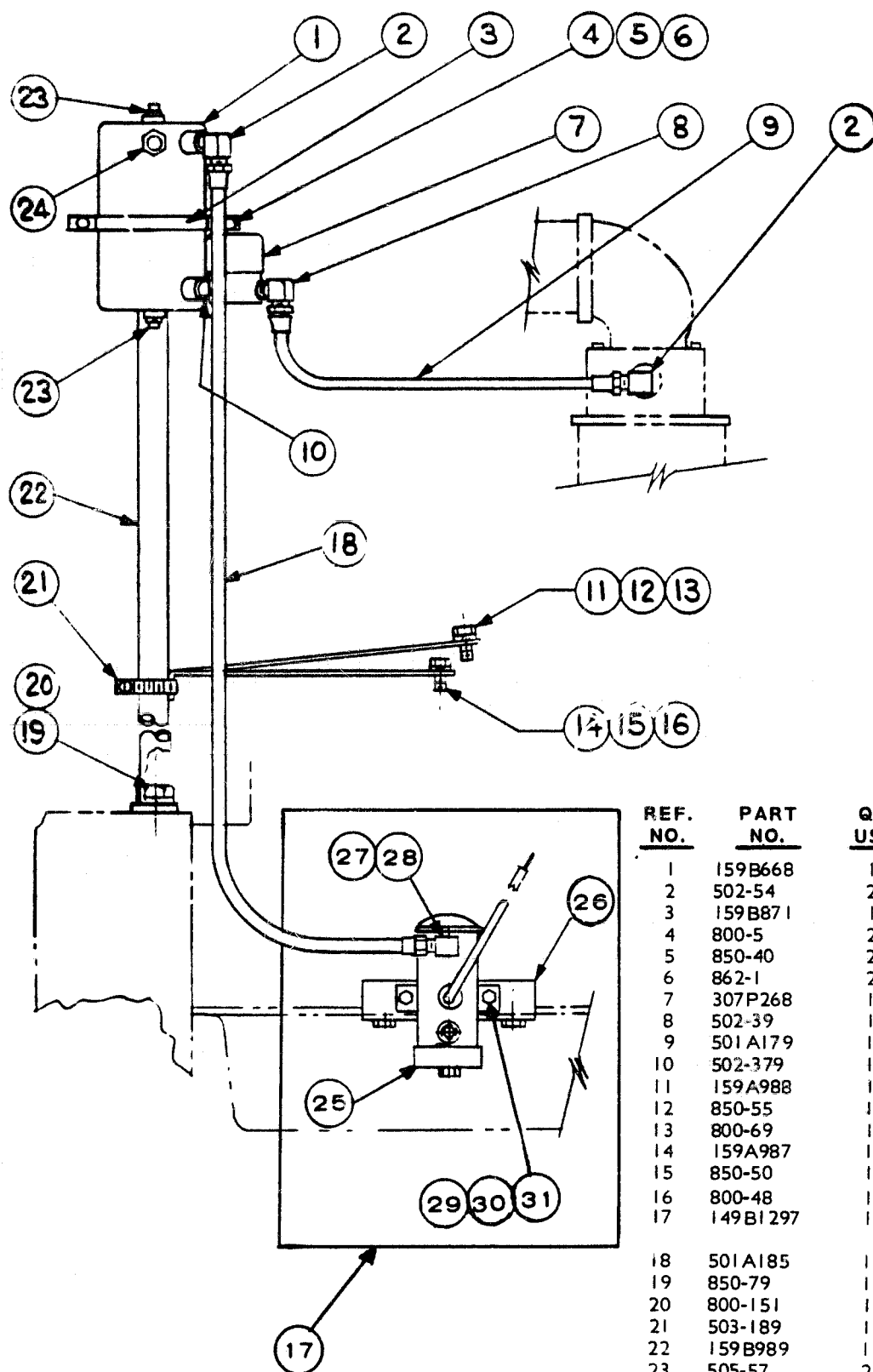
NOTE: Remove Screw Furnished With Clamp, Item 2, and Substitute Screw, Item 3.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	155P1170	2	Silencer, Mobil
2	140-638	4	Clamp, Air Cleaner
3	812-162	4	Screw (1/4-20 x 3")
4	155A1172	2	Shield, Muffler Heat
5	526-172	8	Washer, Flat
6	155A1171	2	Tube Assembly, Exhaust
7	800-30	8	Screw (5/16-18 x 1-1/4")
8	850-45	8	Washer, Lock (5/16")
9	862-2	8	Nut, Hex (5/16-18)

EXHAUST MUFFLER INSTALLATION

179-429

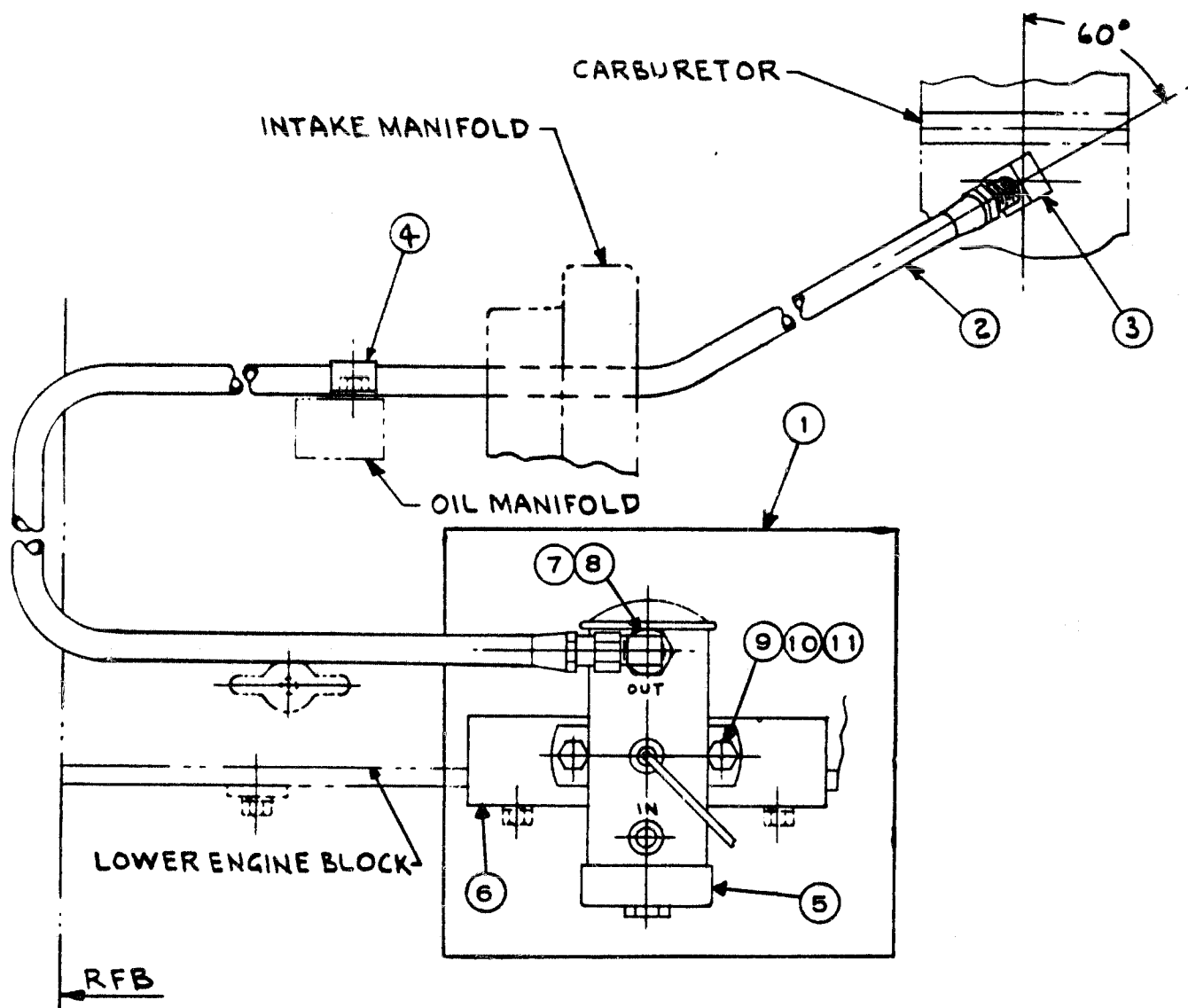
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**DAY TANK - FUEL PUMP INSTALLATION
GASOLINE SETS**

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	159B668	1	Tank, Reservoir
2	502-54	2	Elbow, Street
3	159B871	1	Clamp, Day Tank
4	800-5	2	Screw (1/4-20 x 3/4")
5	850-40	2	Washer, Lock (1/4)
6	862-1	2	Nut, Hex (1/4-20)
7	307P268	1	Valve, Solenoid - 12 Volt DC
8	502-39	1	Elbow, Male
9	501A179	1	Line, Fuel (Flexible)
10	502-379	1	Nipple, Hex
11	159A988	1	Brace, Day Tank
12	850-55	1	Washer, Lock (7/16")
13	800-69	1	Screw (7/16-14 x 3/4")
14	159A987	1	Brace, Day Tank
15	850-50	1	Washer, Lock (3/8")
16	800-48	1	Screw (3/8-16 x 3/4")
17	149B1297	1	Pump Assy., Fuel (12 Volt) (Includes Parts Marked *)
18	501A185	1	Line, Fuel (Flexible)
19	850-79	1	Washer, Lock (3/4)
20	800-151	1	Screw (3/4-10 x 1")
21	503-189	1	Clamp, Hose
22	159B989	1	Bracket, Day Tank
23	505-57	2	Plug, Pipe
24	159A705	1	Bushing, Restricted
25	149A682	1	*Pump, Fuel (12 Volt)
26	149A1293	1	*Bracket, Fuel Pump
27	502-183	1	*Elbow, Male
28	502-143	1	*Adapter, Reducer
29	800-4	2	*Screw (1/4-20 x 5/8")
30	862-1	2	*Nut, Hex (1/4-20)
31	850-40	2	*Washer, Lock (1/4)

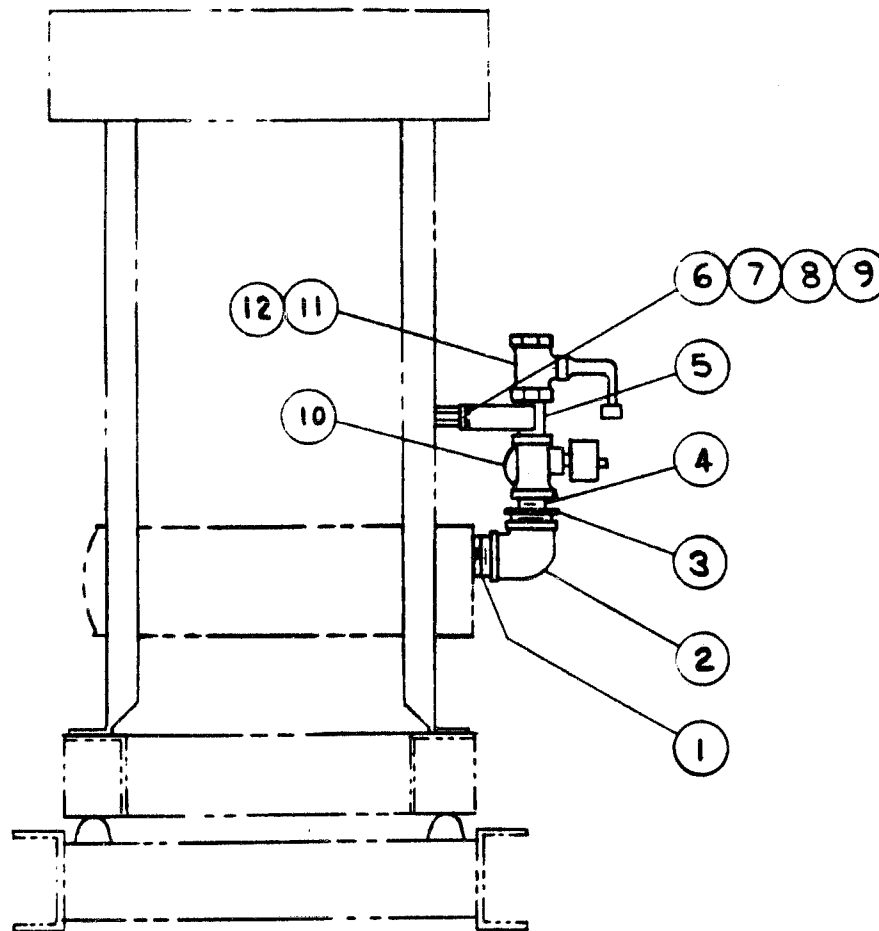
179-427

PUMP
SIZE
8

FUEL PUMP INSTALLATION GAS-GASOLINE SETS

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	179B1297	1	Pump Assy., Fuel (12 Volt) (Includes Parts Marked *)
2	501A185	1	Line, Fuel (Flexible)
3	502-156	1	Elbow, Street (45°)
4	416A96	1	Clamp
5	149A682	1	*Pump, Fuel (12 Volt)
6	149A1293	1	*Bracket, Fuel Pump
7	502-183	1	*Elbow, Male
8	502-143	1	*Adapter, Reducer
9	800-4	2	*Screw (1/4-20 x 5/8")
10	862-1	2	*Nut, Hex (1/4-20)
11	850-40	2	*Washer, Lock (1/4)

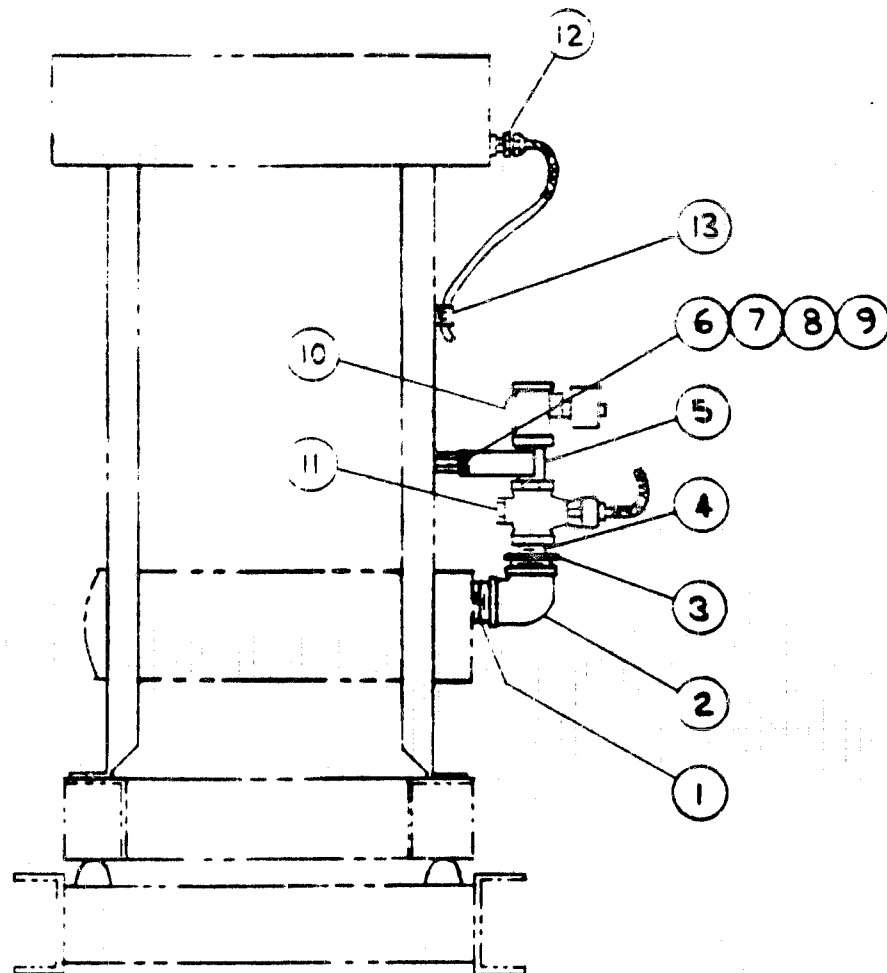
179-419



NOTE: Tie Item 12 to Item 11.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	505-168	1	Nipple, Pipe (2 x 2-1/2")
2	505-175	1	Elbow, Pipe (2 x 90°)
3	505-270	1	Bushing, Reducer (2 x 1-1/4)
4	505-177	1	Nipple, Pipe (1-1/4 x 1-5/8")
5	110A1168	1	Bracket & Nipple Assembly
6	505-104	2	Nipple - Spacer (1/8 x 1-1/2")
7	812-162	2	Screw (1/4-20 x 3")
8	850-40	2	Washer, Lock (1/4)
9	862-1	2	Nut, Hex (1/4-20)
10	307A849	1	Valve, Solenoid
11	504-51	1	Valve, Globe
12	504-52	1	Key, Valve

HEAT EXCHANGER INSTALLATION

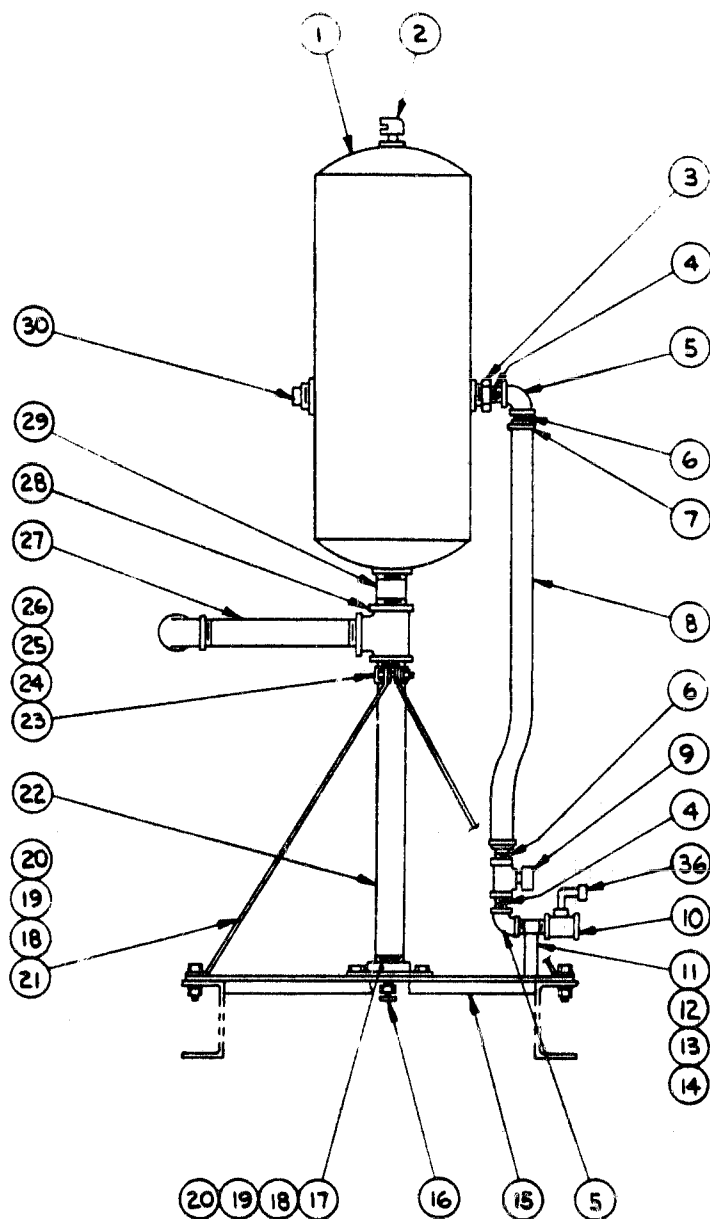
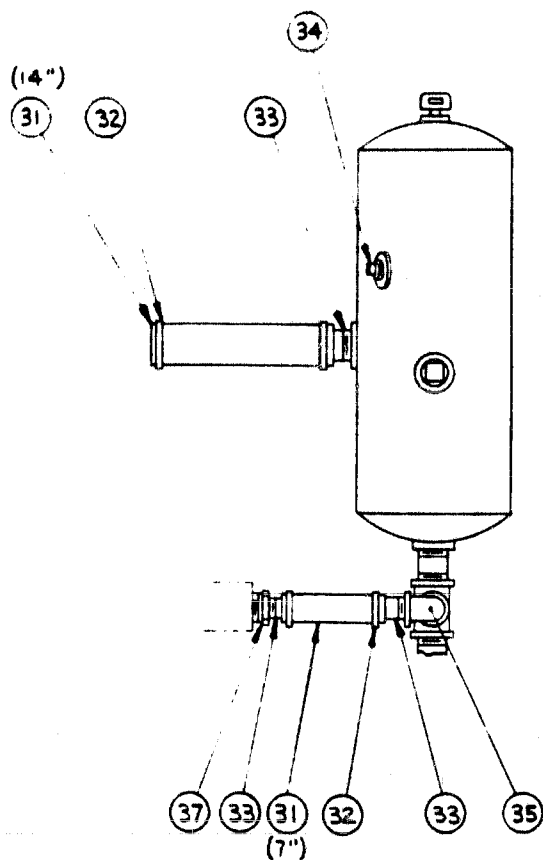


NOTE: Remove Thermostat From Engine.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	505-168	1	Nipple, Pipe (2 x 2-1/2")
2	505-175	1	Elbow, Pipe (2 x 90°)
3	505-270	1	Bushing, Reducer (2 x 1-1/4")
4	505-177	1	Nipple, Pipe (1-1/4 x 1-5/8")
5	110A1168	1	Bracket & Nipple Assembly
6	505-104	2	Nipple - Spacer (1/8 x 1-1/2")
7	812-162	2	Screw (1/4-20 x 3")
8	850-40	2	Washer, Lock (1/4")
9	862-1	2	Nut, Hex (1/4-20)
10	307A849	1	Valve, Solenoid
11	309P243	1	Valve, Water Temperature Control
12	505-129	1	Bushing, Reducer (1 x 3/4")
13	416-96	1	Clamp, Battery Cable

HEAT EXCHANGER WITH MARSH REGULATOR INSTALLATION

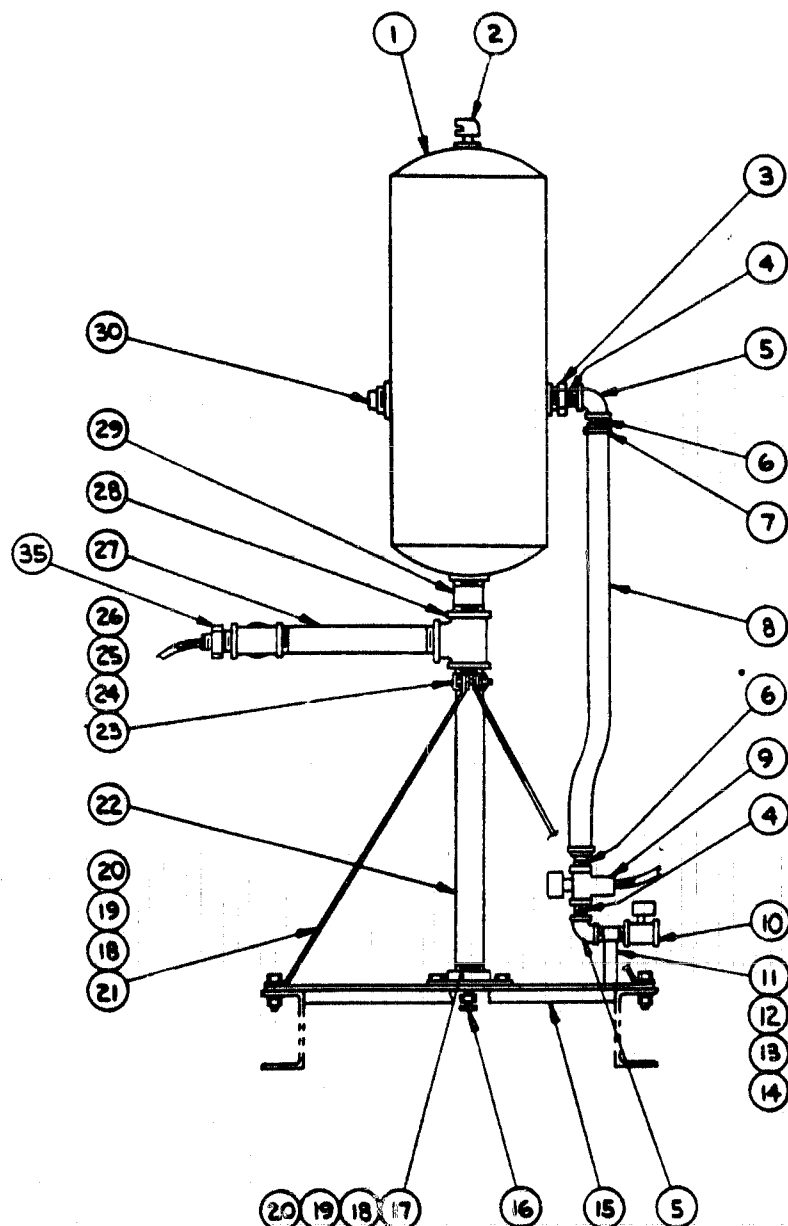
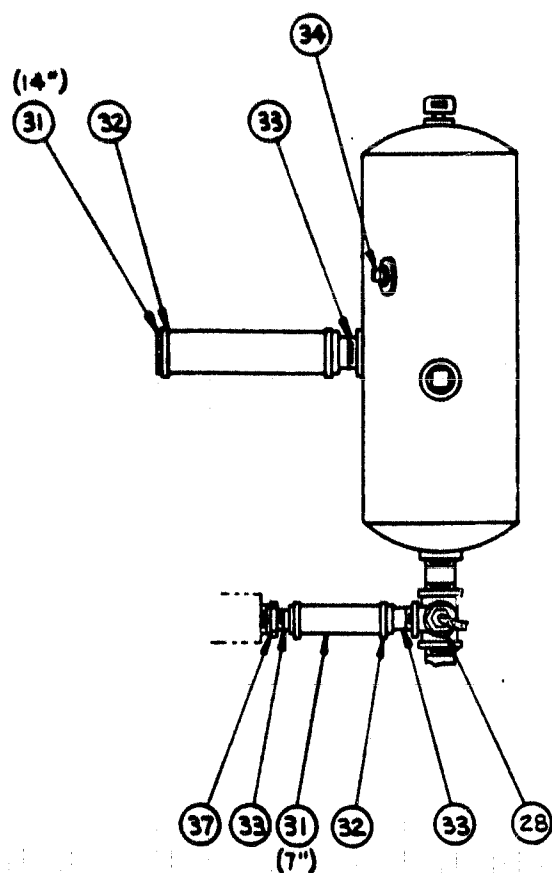
179-416



STANDPIPE COOLING INSTALLATION

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130C425	1	Standpipe
2	504P62	1	Valve, Vacuum Relief
3	505-297	1	Bushing, Reducer (1-1/4 x 3/4)
4	505-102	2	Nipple, Close (3/4)
5	505-132	2	Elbow, Pipe (3/4 x 90°)
6	505A324	2	Nipple, Half (3/4 x 2")
7	503P189	2	Clamp, Hose
8		1	Hose, Heater (Order 36" of Bulk Hose #503-249)
9	307A835	1	Valve, Solenoid
10	504-46	1	Valve, Globe
11	110A810	1	Bracket & Nipple Assembly
12	800-7	2	Screw (1/4-20 x 1")
13	850-40	2	Washer, Lock (1/4)
14	862-1	2	Nut, Hex (1/4-20)
15	130B857	1	Support, Standpipe Mounting
16	504-6	1	Cock, Drain
17	130B442	1	Base, Standpipe
18	800-92	8	Screw (1/2-13 x 1-1/2")
19	850-60	8	Washer, Lock (1/2)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
20	862-5	8	Nut, Hex (1/2-13)
21	130A873	2	Brace, Standpipe
22	505-418	1	Nipple, Pipe (2 x 24-1/2")
23	130A871	1	Clamp, Standpipe Mounting
24	800-51	1	Screw (3/8-16 x 1-1/4")
25	850-50	1	Washer, Lock (3/8)
26	862-3	1	Nut, Hex (3/8-16)
27	505-749	1	Nipple, Pipe (2 x 10-1/2")
28	505-374	1	Tee, Pipe (2")
29	505-173	1	Nipple, Pipe (2 x 4")
30	505-359	1	Plug, Pipe
31		1	Hose, Radiator (Order 21" of Bulk Hose #503-324)
32	503P354	4	Clamp, Hose
33	505A204	3	Nipple, Half (2 x 2")
34	505-140	1	Plug, Pipe (1")
35	505-175	1	Elbow, Pipe (2" x 90°)
36	504-20	1	Key, Globe Valve
37	505-207	1	Bushing, Reducer (2-1/2 x 2)



NOTE: Remove Thermostat From Engine.

STANDPIPE COOLING WITH MARSH REGULATOR INSTALLATION

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130C425	1	Standpipe
2	504P62	1	Valve, Vacuum Relief
3	505-297	1	Bushing, Reducer (1-1/4 x 3/4)
4	505-102	2	Nipple, Close (3/4)
5	505-132	2	Elbow, Pipe (3/4 x 90°)
6	505A324	2	Nipple, Half (3/4 x 2")
7	503P189	2	Clamp, Hose
8		1	Hose, Heater (Order 36" of Bulk Hose #503-249)
9	309P241	1	Valve, Water Temperature Control
10	307A835	1	Valve, Solenoid
11	110A810	1	Bracket & Nipple Assembly
12	800-7	2	Screw (1/4-20 x 1")
13	850-40	2	Washer, Lock (1/4)
14	862-1	2	Nut, Hex (1/4-20)
15	130B857	1	Support, Standpipe Mounting
16	504-6	1	Cock, Drain
17	130B442	1	Base, Standpipe
18	800-92	8	Screw (1/2-13 x 1-1/2")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
19	850-60	8	Washer, Lock (1/2)
20	862-5	8	Nut, Hex (1/2-13)
21	130A873	2	Brace, Standpipe
22	505-418	1	Nipple, Pipe (2 x 24-1/2")
23	130A871	1	Clamp, Standpipe Mounting
24	800-51	1	Screw (3/8-16 x 1-1/4")
25	850-50	1	Washer, Lock (3/8)
26	862-3	1	Nut, Hex (3/8-16)
27	505-749	1	Nipple, Pipe (2 x 10-1/2")
28	505-374	2	Tee, Pipe (2")
29	505-173	1	Nipple, Pipe (2 x 4")
30	505-359	1	Plug, Pipe
31		1	Hose, Radiator (Order 21" of Bulk Hose #503-324)
32	503P354	4	Clamp, Hose
33	505A204	3	Nipple, Half (2 x 2")
34	505-140	1	Plug, Pipe (1")
35	505-351	1	Bushing, Reducer (2 x 3/4)
37	505-207	1	Bushing, Reducer (2-1/2 x 2)

900-166 (2/72)

SUPPLEMENTARY PARTS LIST

Parts in this list apply to the PENNSYLVANIA APPROVED GENERATING SETS for the following Series Generator Sets, Operators and Parts Manuals and Specification letters shown adjacent to the series designated.

Operators and Parts Manual	Series	Spec Letter
928-302	EK	C, D and E
928-302	EM	C, D and E
957-302	KB	Q
957-302	KR	Q
947-302	WA	F and G
948-305	WB	H and J
948-306	WE	B and C

Use these parts in place of/or in addition to those listed in the standard operators manual and parts catalog. Parts that are similar in appearance to those in the main parts catalog are not illustrated.

Pennsylvania approved generating sets can be identified by the numbers 30 (gasoline fuel), 31 (gaseous fuel), or 131 (liquid petroleum fuel) appearing in the model. These numbers may appear just before or after the diagonal line (/). The number appearing after the diagonal line signifies a standard Pennsylvania approved generating set (Example: 30.0EK-15R/31E).

REPLACEMENT ENGINES

<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
	100P1000	1	For WA (Gas-Gasoline Fueled) Waukesha Model F817GU (Gas-Gaso)
	100P1008	1	For WA (Gas Fueled) Waukesha Model F817GU (Gas)
	100P1017	1	For WB (Gas-Gasoline Fueled) Waukesha Model F1197GU (Gas-Gaso)
	100P1003	1	For WB (Gas Fueled) Waukesha Model F1197GU (Gas)
	100P1004	1	For WE (Gas-Gasoline Fueled) Waukesha Model H-884 Roiline (Gas-Gaso)
	100P1005	1	For WE (Gas Fueled) Waukesha Model H-884 Roiline (Gas)

NOTE: See standard operators manual and parts catalog for general description.

NOTE: Replacement engines listed above are for standard radiator cooled generating sets, refer to factory for all other engines used on the WA, WB, and WE series.